

Fig. 1

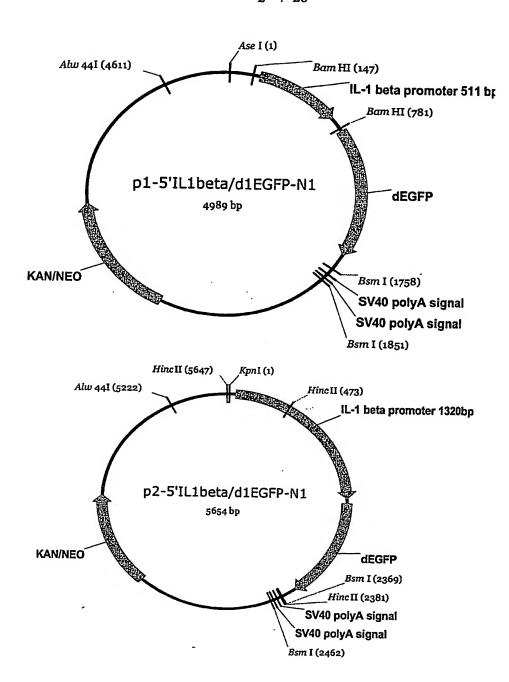


Fig. 2

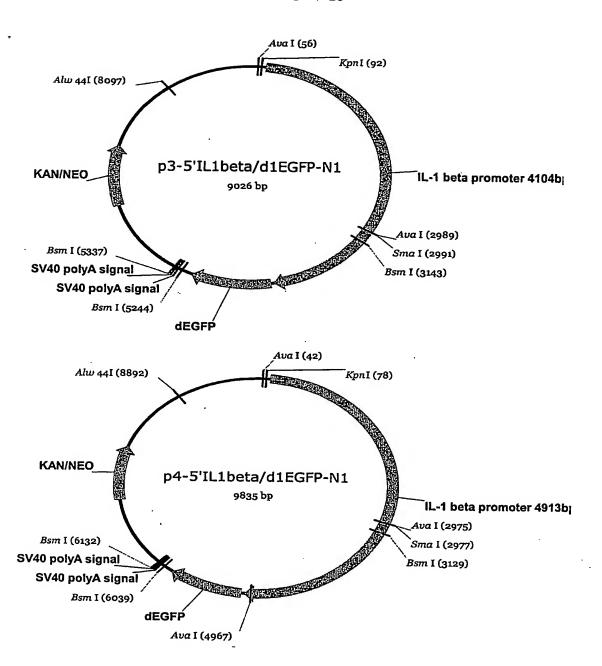


Fig. 3

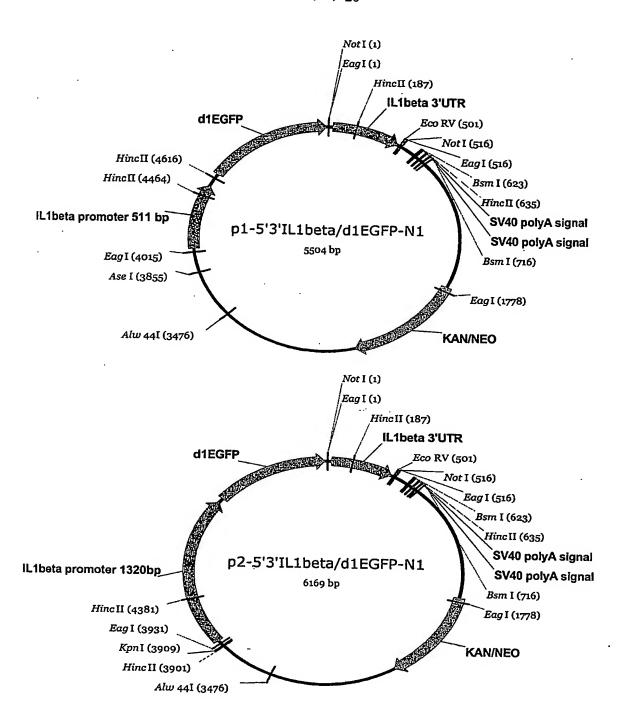


Fig. 4

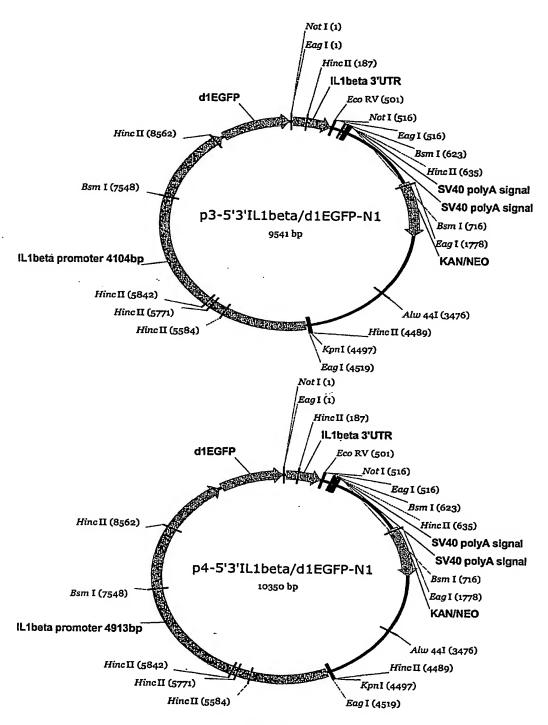


Fig. 5

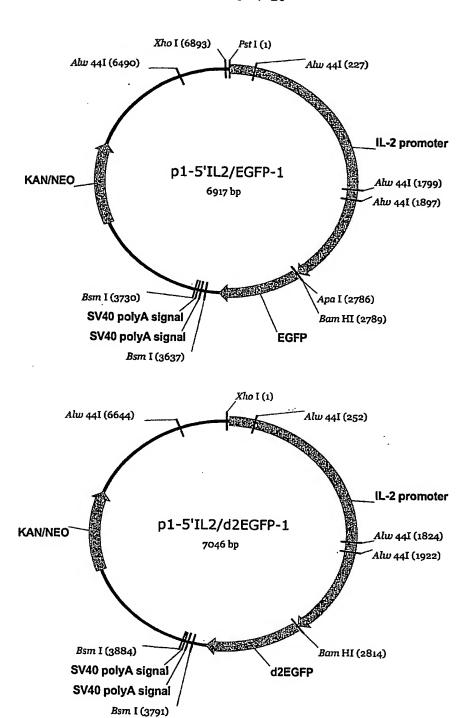
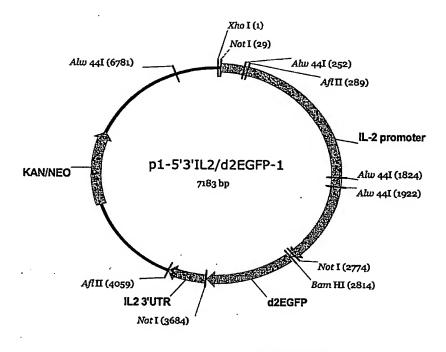


Fig. 6



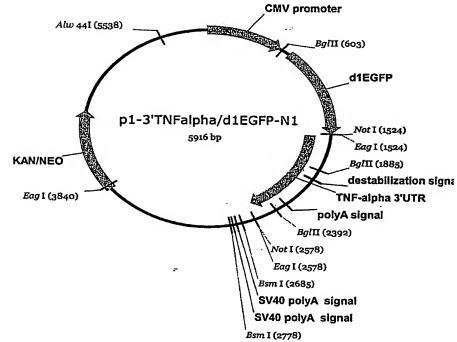


Fig. 7

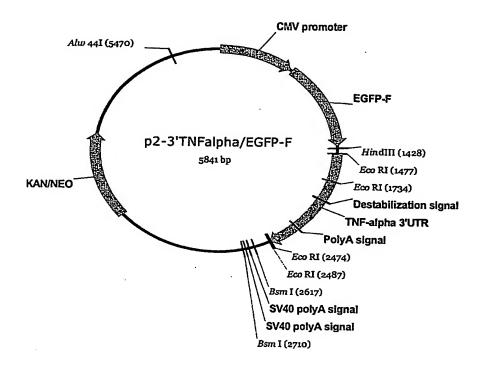


Fig. 8

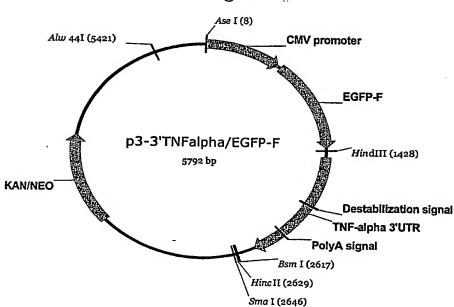


Fig. 9

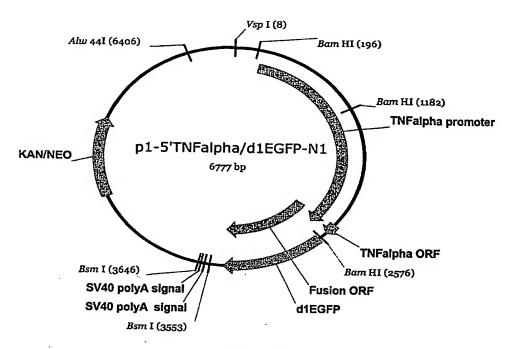


Fig. 10

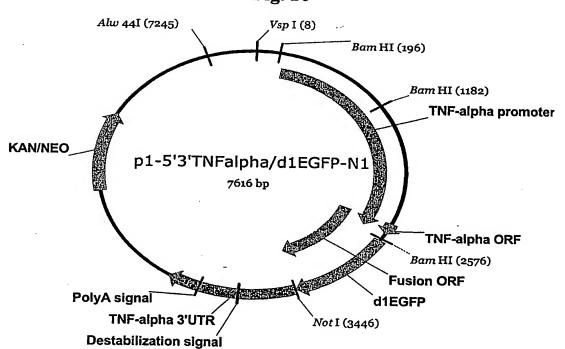


Fig. 11

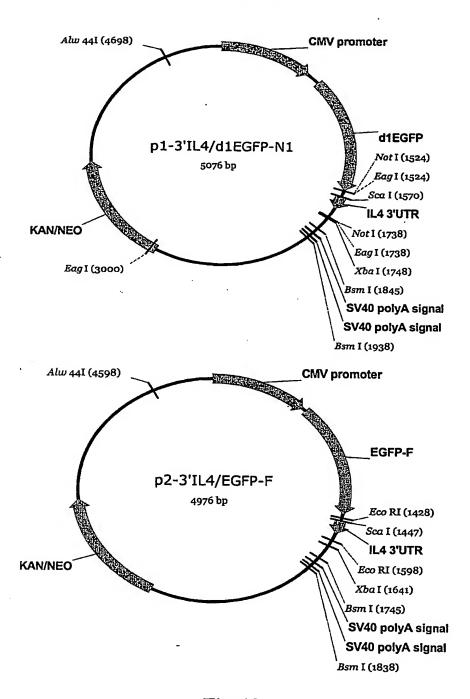


Fig. 12

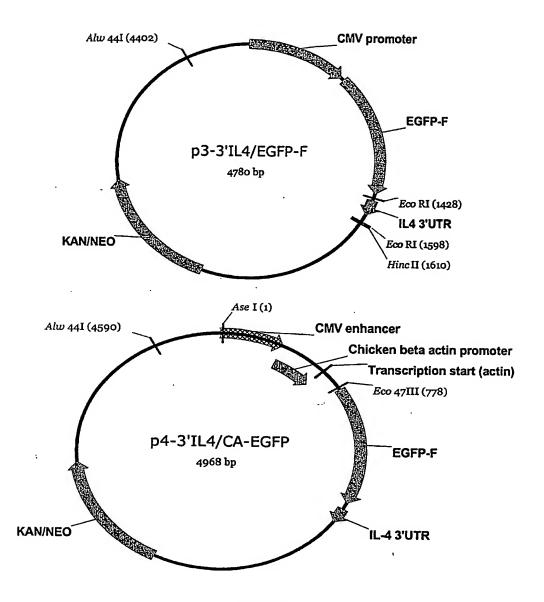


Fig. 13

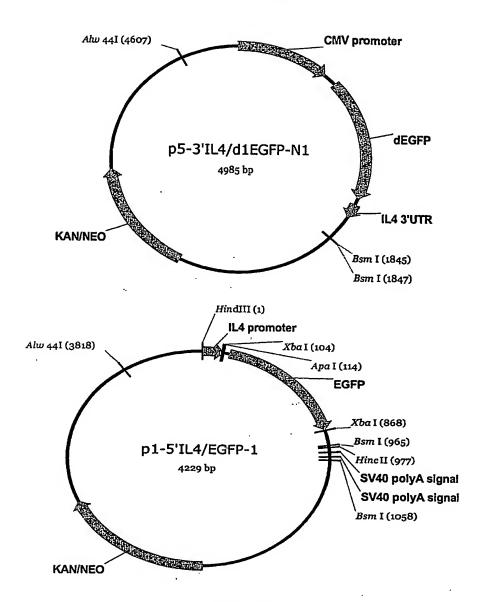


Fig. 14

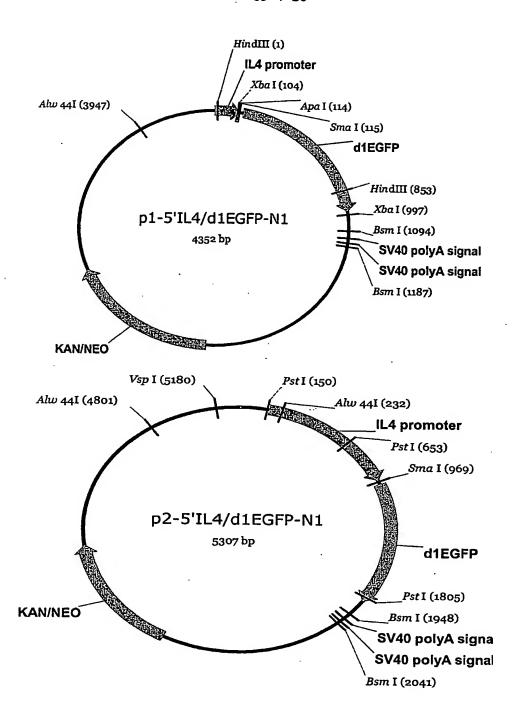


Fig. 15

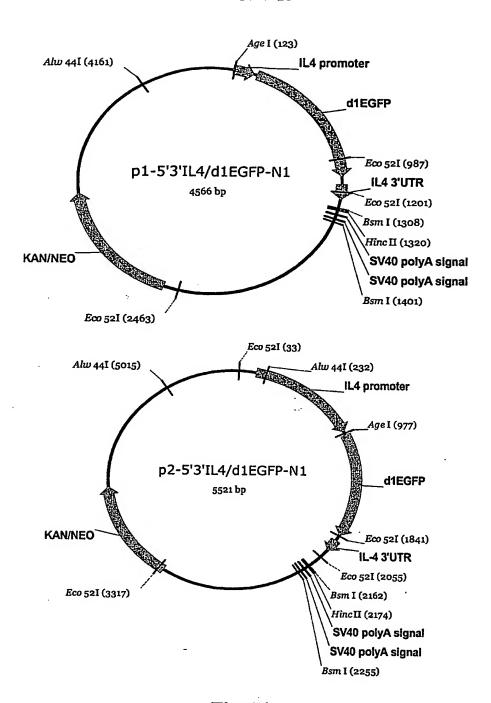
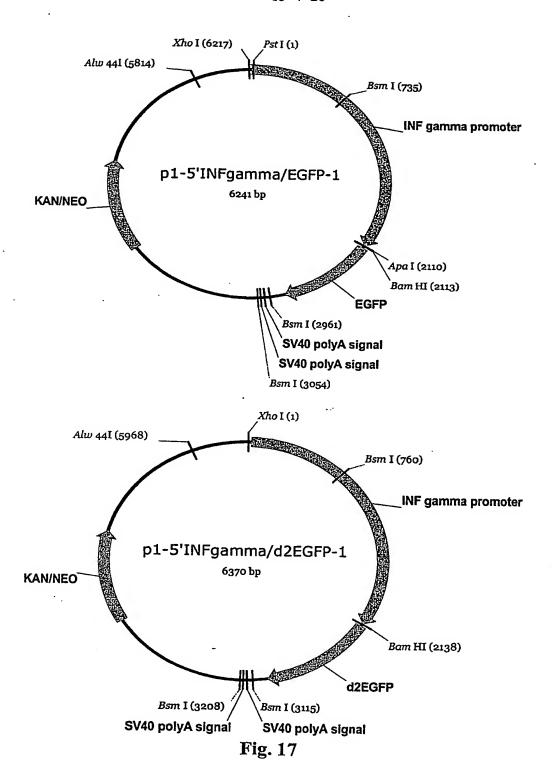
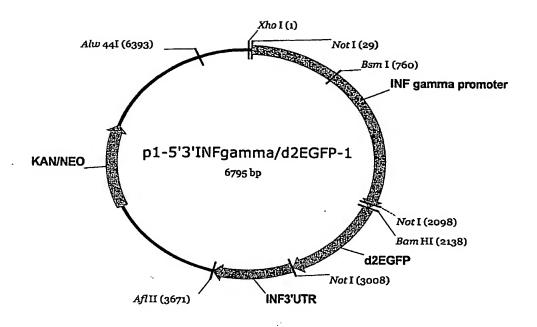


Fig. 16





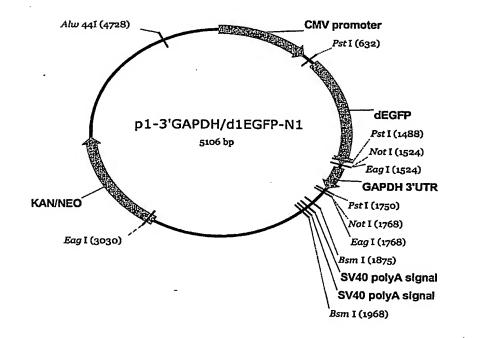


Fig. 18

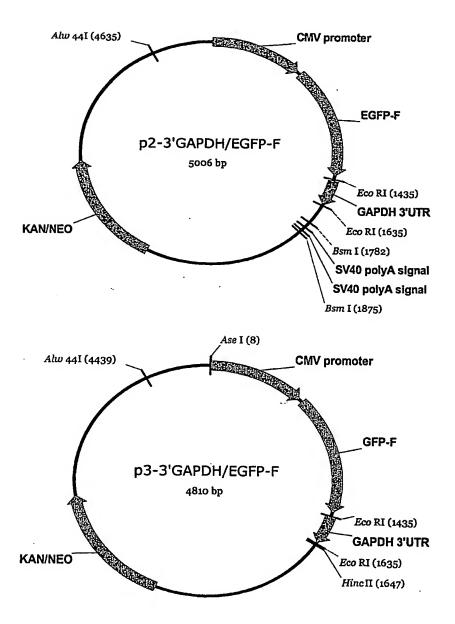


Fig. 19

Fig. 20

Cell viability testing.
Cell lines employed in the project were exposed to incresing concentrations of chemicals listed in Table II. LDH relase was determined using test (Roche) according to the manufacturer protocol. All concentrations are expresed in [µM].

		Holzin	1213 141 ECECD E E1 A	E1 _4	177484
		0.00	1-11-0-011-010	Ass. 1.00	
Chemical	solvent	vent Karcinocyte	Fibroblast	T-cell leukemia	Macrophage-
					monocyte
Benzocaine	Ethanol				A: 3000
CAS Nr. 94-09-7			B: 3000, 1000		B: 1000
-					<u>نٰ</u>
					D:100, 10
Cyclosporin	Ethanol			A: 15, 10	A: 30, 10
			C: 1, 0.1		<u>:</u>
					D: 1, 0.1
DNCB,	Ethanol	Ethanol A: 100, 33, 10		A: 10	A: 10, 5
dinitrochlorobenzene		•		B: -	ä
CAS Nr. 9700-7				-:ö	:
			D:-	D: 1, 0.33, 0.033	D: 0.5, 0.05
MDI, diphenylmethane-	DMSO	A:-		A: 1500	
4,4-diisocyanate		<u>:</u>		B: -	
CAS Nr: 101-68-8		C: 1000, 100, 10, 1		-:	
		-: <u>-</u>		D: 150, 15, 1.5	
HgCl2, mercuric chloride ethanol	ethanol	A: -		X: 10	
Cas nr: 7487-94-7				A: 30	
		, 0.1, 0.01, 0.001		. :	
				-: :	
				D: 1, 0,01	

Fig. 20 (continuation)

		Hel 30	3T3-L1+pEGFFP-F	EL-4	J774A1
Chemical	solvent	Karcinocyte	Fibroblast	T-cell leukemia	Macrophage- monocyte
Penicillin G Cas nr: 140-64-7	medium	A: - B: -		A: - B: -	
		C: 1000, 100, 10, 1 D: -	C: 1000, 100, 10, 1 D: -	C: - D: 1000, 100, 10, 1	-
SDS, sodium dodecyl	DMSO			A: 250 B: -	
		C: 50, 5, 0.5 D: -	C: 50, 5, 0.5 D: -	<u>C:</u> - D: 50, 5, 0.5	
TBTO, bis-tributyltin oxide	ethanol	A: 100, 10, 1 B: 0.1	, 10, 1	A: 10, 1, 0.5, 0.1, 0.05 B: 0.1	
Cas nr. 584-3-9		ប៉ូ ដ		ÖÖ	
TDI, toluene-2,4- diisocvanate	ethanol	A: 1500 B: 150		A: B: 1000	
Cas nr. 584-84-9	!	C: 15, 1.5 D:	:	C: D: 100, 10, 1	
K2PtCI4,	medium	A: -	100	A:	
tetrachloroplatinate		B: - C: 8 6 0 86 0 086 0 0086 C: 10 1		B; 150, 50 C:	
Cas nr. 10025-99-7		D:-		D: 5, 0.5	
Thalidomide, cas nr 50-35-1	DWSO	C: 1000, 100, 10, 1	C: 1000, 100, 10, 1	D: 1000, 100, 10, 1	
A: toxic concentration, B: concent	tration inhibits	A: toxic concentration, B: concentration inhibits cell growth, no toxicity, C: no toxic effect or growth inhibition, X: lower amount of LDH, but no toxic effect or cell growth Inhibition	ct or growth inhibition, X: lawe	r amount of LDH, but no toxic effe	ct or cell growth inhibition

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Fig. 21

Comparision of data obtained in cytotoxicity tests in two participating laboratories

Direct cytotoxicity assciated with chemicals listed in Table II was determined for EL-4 cell line using LDH relase assay in two laboratories according to the same experimental protocol. All concentrations are expressed in $[\mu M]$.

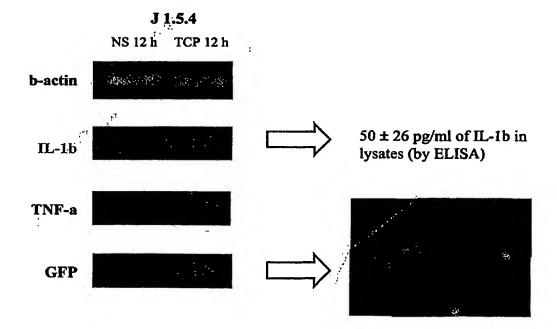
	<u> </u>		EL-4	
Chemical	solvent	NIPH solv.	T-cell leukemia	in NIPH
Cyclosporin	Ethanol	Ethanol	A: 15, 10	20ug/mL and above
			B: 1	is Toxic
	-	i	C:-	below 10ug/mL OK
			D:-	
Penicillin G	medium		A: -	2500 U = 15 mg/mL
Cas nr: 140-64-7			B: - C: -	and below not toxic
		·	D: 1000, 100, 10	
Pentamidine	medium	DMSO	D: 1000, 100, 10	30ug/mL and
cas nr: 140-64-7	modiani	Bivioo		below=OK, 60ug/mL
				usure, 80ug/mL and
				above toxic
Rapamycin		DMSO	:	Think 25000ng/mL
cas nr 53123-88-9				toxic, below 1000
				ng/mL OK
SDS, sodium	DMSO	water	A: 1500	50ug/mL and below
dodecyl sulphate			B: - C: -	not toxic, 2,5 mg/mL toxic
			D: 150, 15, 1.5	LOXIC
HgCl2, mercuric	ethanol		X: 10	
chloride	001,001		A: 30	
Cas nr: 7487-94-7			B:	
			C: -	
	ļ		D: 1, 0.01	
TBTO, bis-tributyltin	ethanol			
oxide]		
Cas nr: 584-3-9	ethanol			
TDI, toluene-2,4- diisocyanate	ethanoi			
Cas nr: 584-84-9	ŀ	İ		1
K2PtCI4,	medium	water		150uM = - 20 %
tetrachloroplatinate				toxicity
(platinum salt)				
Cas nr: 10025-99-7				
Thalidomide,	DMSO			
cas nr 50-35-1	ļ			

Fig. 22

Expression of IL-1 β and GFP in J.1.5.4 stimulated with tetrachloroplatinate TCP

A. The EC_{50} values for selected chemicals from the list of model immunotoxicants (concentration causing death of 50% of cells in the population) obtained with MTT assay with macrophages J774A.1 and clone J 1.5.4.

B. J 1.5.4. reporter cells were incubated with these chamicals and observed under fluorescence microscope. In the case of tetrachloroplatinate upregulation of green fluorescence was observed. The expression of GFP and endogenous IL-1β was confirmed with RT-PCR and with RT-PCR and ELISA, respectively.



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Response of reporter cell lines to model xenobiotics (I)

Two EL-4 derived IL-2 expresion reporter cell lines were activated with TPA/ionomycine for 16 hr in the presence or absence of cyclosporin A or Rapamycin. The level of EGFP mediated fluorescence was determined by FACS

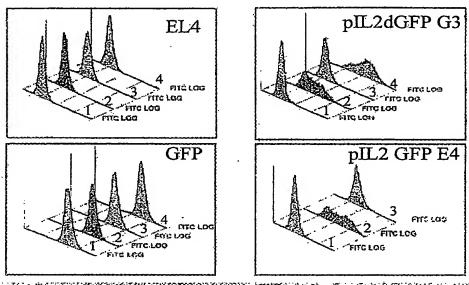


Fig. 23

Fig. 24

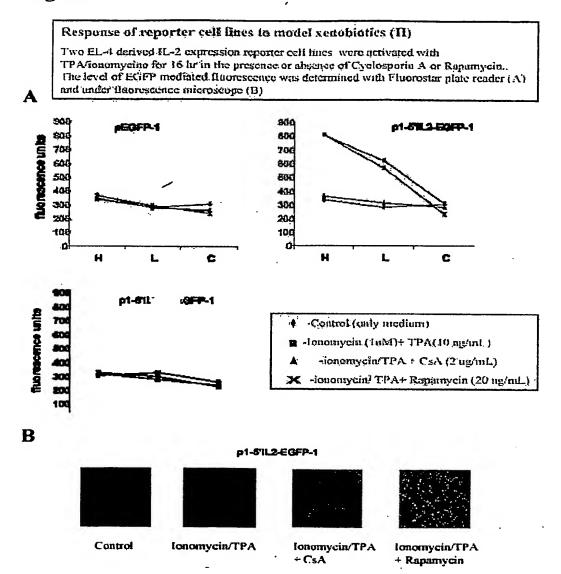


Fig. 25

Response of reporter cell lines to model xenobiotics (III)

A. EL-4 cells were incubated were activated with TPA/ionomycine for 16 hr in the presence or absence of Cyclosporin A or Rapamycin or TCDD. RNA was isolated using Tri reagent and RTPCR using primers specific for IL-2and GAPDH (control) were performed. PCR products were analyzed on agarose gel

B EL-4 derived reporter cells were incubated with media alone or activated with TPA/ionomycine for 16 hr in the presence or absence of Cyclosporin A or Rapamycin for 16 hr and the level of EGFP mediated fluorescence was determined by FACS.

A



M: size marker

1: control

2: TPA/ionomycin

3: TPA/ionomycin + CsA

4: TPA/ionomycin + Rap.

5: TPA/ionomycin + TCDD

 \mathbf{B}

